Bay Area Air Quality Management District

939 Ellis Street San Francisco, CA 94109 (415) 771-6000

Proposed

MAJOR FACILITY REVIEW PERMIT

Issued To: Martinez Cogen Limited Partnership (MCLP) Facility #A1820

Facility Address:

550 Solano Way Martinez, CA 94553

Mailing Address:

550 Solano Way Martinez, CA 94553

Responsible Official

Facility Contact

Phil Porter Jan Polewaczyk, Plant Manager David Wallenstein Gene Salva (925) 313-0801 (925) 313-0810

Type of Facility: Cogeneration Facility, 99.9 MW BAAQMD Permit Division Contact:

Primary SIC: 4911 Bob NishimuraRobert T.

Hull

Product: Cogeneration of electricity and steam

ISSUED BY THE BAY AREA AIR QUALITY MANAGEMENT DISTRICT

TABLE OF CONTENTS

I.	STANDARD CONDITIONS	3
II.	EQUIPMENT LIST	7
III.	GENERALLY APPLICABLE REQUIREMENTS	8
IV.	SOURCE-SPECIFIC APPLICABLE REQUIREMENTS	11
V.	SCHEDULE OF COMPLIANCE	18
VI.	PERMIT CONDITIONS	19
A.	. Source Specific Permit Conditions	19
В.	. Facility-wide Conditions	23
VII. 28	APPLICABLE EMISSION-LIMITS & COMPLIANCE MONITORING REQUIR	EMENTS
VIII.	TEST METHODS	35
IX.	PERMIT SHIELD	37
A.	. NON-APPLICABLE REQUIREMENTS	37
В.	. SUBSUMED REQUIREMENTS	37
X.	MAJOR FACILITY REVIEW PERMIT HISTORY	40
XI.	GLOSSARY	41
XII.	APPENDIX A - APPLICABLE STATE IMPLEMENTATION PLAN	48

Expiration Date: December 18, 2003] [ENTER DATE]

D. BNNRTH

I. STANDARD CONDITIONS

A. Administrative Requirements

The permit holder shall comply with all applicable requirements in the following regulations:

BAAQMD Regulation 1 - General Provisions and Definitions

(as amended by the District Board on 10/7/985/2/01);

SIP Regulation 1 - General Provisions and Definitions

(as approved by EPA through <u>11/10/82</u>6/28/99);

BAAQMD Regulation 2, Rule 1 - Permits, General Requirements

(as amended by the District Board on $\frac{10}{7}$ 988/1/01);

SIP Regulation 2, Rule 1 - Permits, General Requirements

(as approved by EPA through <u>6/23/951/26/99</u>);

BAAQMD Regulation 2, Rule 2 - Permits, New Source Review

(as amended by the District Board on $\frac{10}{7}$ /985/17/00):

SIP Regulation 2, Rule 2 - Permits, New Source Review and Prevention of Significant Deterioration

(as approved by EPA through 10/19/841/26/99); and

BAAQMD Regulation 2, Rule 4 - Permits, Emissions Banking

(as amended by the District Board on $\frac{10}{7}$ /984/16/03).

SIP Regulation 2, Rule 4 - Permits, Emissions Banking

(as approved by EPA through 1/26/99); and

BAAQMD Regulation 2, Rule 6 - Permits, Major Facility Review

(as amended by the District Board on 4/16/03).

B. Conditions to Implement Regulation 2, Rule 6, Major Facility Review

- 1. This Major Facility Review Permit expires on December 18, 2003 ___. The permit holder shall submit a complete application for renewal of this Major Facility Review Permit no later than June 18, 2003 __ and no earlier than December 18. 2002 __. If a complete application for renewal has not been submitted in accordance with these deadlines, the facility may not operate after December 18, 2003 __. (Regulation 2-6-307, 404.2, & 409.6; MOP Volume II, Part 3, §4.2)
- 2. The permit holder shall comply with all conditions of this permit. The permit consists of this document and all appendices. Any non-compliance with the terms and conditions of this permit will constitute a violation of the law and will be grounds for enforcement action; permit termination, revocation and re-issuance, or modification; or denial of a permit renewal application. (Regulation 2-6-307; MOP Volume II, Part 3, §4.11)
- 3. In the event any enforcement action is brought as a result of a violation of any term or condition of this permit, the fact that it would have been necessary for the permittee to halt or reduce the permitted activity in order to maintain compliance with such term or condition shall not be a defense to such enforcement action. (MOP Volume II, Part 3, §4.11)

Expiration Date: December 18, 2003[ENTER DATE]

D: BNNRTH

I. Standard Conditions (continued)

- 4. This permit may be modified, revoked, reopened and reissued, or terminated for cause. (Regulation 2-6-307, 409.8, 415; MOP Volume II, Part 3, §4.11)
- 5. The filing of a request by the facility for a permit modification, revocation and reissuance, or termination, or the filing of a notification of planned changes or anticipated non-compliance does not stay the applicability of any permit condition. (Regulation 2-6-409.7; MOP Volume II, Part 3, §4.11)
- 6. This permit does not convey any property rights of any sort, nor any exclusive privilege. (Regulation 2-6-409.7; MOP Volume II, Part 3, §4.11)
- 7. The permit holder shall supply within 30 days any information that the District requests in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. (Regulation 1-441, Regulation 2-6-409.4 & 501; MOP Volume II, Part 3, §4.11)
- 8. Any records required to be maintained pursuant to this permit which the permittee considers to contain proprietary or trade secret information shall be prominently designated as such. Copies of any such proprietary or trade secret information which are provided to the District shall be maintained by the District in a locked confidential file, provided, however, that requests from the public for the review of any such information shall be handled in accordance with the District's procedures set forth in Section 11 of the District Administrative Code. (Regulation 2-6-419; MOP Volume II, Part 3, §4.11)
- 9. Proprietary or trade secret information provided to EPA will be subject to the requirements of 40 CFR Part 2, Subpart B Public Information, Confidentiality of Business Information. (40 CFR Part 2)
- 10. The emissions inventory submitted with the application for this Major Facility Review Permit is an estimate of actual emissions for the time period stated and is included only as one means of determining applicable requirements for emission sources. It does not establish, or constitute a basis for establishing, any new emission limitations. (MOP Volume II, Part 3, §4.11)
- 11. The responsible official shall certify all documents submitted by the facility pursuant to the major facility review permit. The certification shall state that based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete. The certifications shall be signed by a responsible official for the facility. (MOP Volume II, Part 3, §4.11)

C. Requirement to Pay Fees

The permit holder shall pay annual fees in accordance with District Regulation 3, including Schedule P. (Regulation 2-6-402 & 409.13, Regulation 3; MOP Volume II, Part 3, §4.12)

Expiration Date: December 18, 2003[ENTER DATE]

D: BNNRTH

I. Standard Conditions (continued)

D. Inspection and Entry

Access to Facility: The permit holder shall provide reasonable access to the facility and equipment which is subject to this permit to the APCO and/or to his or her designee. (Regulation 1-440, Regulation 2-6-409.3; MOP Volume II, Part 3, §4.14)

E. Records

- 1. The permit holder must provide any information, records, and reports requested or specified by the APCO. (Regulation 1-441, Regulation 2-6-409.4)
- 2. Notwithstanding the specific wording in any requirement, all records for federally enforceable requirements shall be maintained for at least five years from the date of entry. (Regulation 2-6-501, Regulation 3; MOP Volume II, Part 3, §4.7)

F. Monitoring Reports

Reports of all required monitoring reports—must be submitted to the District at least once every six months, except where an applicable requirement specifies more frequent reporting. The reporting periods for this permit shall be June 1st- to November 30th and December 1st to May 31st. Each report is due on the last day of the month after the end of the reporting period. All instances of non-compliance shall be clearly identified in these reports. The reports shall be certified by the responsible official as true, accurate, and complete. In addition, all instances of non-compliance with the permit shall be reported in writing to the District's Compliance and Enforcement Division within 10 calendar days of the discovery of the incident. Within 30 calendar days of the discovery of any incident of non-compliance, the facility shall submit a written report including the probable cause of non-compliance and any corrective or preventative actions. The reports shall be sent to the following address:

Director of Compliance and Enforcement Bay Area Air Quality Management District 939 Ellis Street San Francisco, CA 94109 Attn: Title V Reports

(Regulation 2-6-502, Regulation 3; MOP Volume II, Part 3, §4.7)

G. Compliance Certification

Compliance certifications shall be submitted annually by the responsible official of this facility to the Bay Area Air Quality Management District and to the Environmental Protection Agency. The certification period will be December 1st to November 30th. The certification shall be submitted by December 31 of each year. The certification must list each applicable requirement, the compliance status, whether compliance was continuous or intermittent, the method used to determine compliance, and any other specific information required by the permit. The permit holder may satisfy this requirement through submittal of District-generated Compliance Certification forms. The certification should be directed to the District's Compliance and Enforcement Division at the address above, and a copy of the certification should be sent to the Environmental Protection Agency at the following address:

Expiration Date: December 18, 2003[ENTER DATE]

D: BNNRTH

I. Standard Conditions (continued)

Director of the Air Division USEPA, Region IX 75 Hawthorne Street San Francisco, CA 94105 Attention: Air-3

(MOP Volume II, Part 3, §4.5 and 4.15)

H. Emergency Provisions

- 1. The permit holder may seek relief from enforcement action in the event of a breakdown, as defined by Regulation 1-208 of the District's Rules and Regulations, by following the procedures contained in Regulations 1-431 and 1-432. The District will thereafter determine whether breakdown relief will be granted in accordance with Regulation 1-433. (MOP Volume II, Part 3, §4.8)
- 2. The permit holder may seek relief from enforcement action for a violation of any of the terms and conditions of this permit caused by conditions beyond the permit holder's reasonable control by applying to the District's Hearing Board for a variance pursuant to Health and Safety Code Section 42350. The Hearing Board will determine after notice and hearing whether variance relief should be granted in accordance with the procedures and standards set forth in Health and Safety Code Section 42350 et seq. Any variance granted by the Hearing Board from any term or condition of this permit which lasts longer than 90 days will be subject to EPA approval. (MOP Volume II, Part 3, §4.8)
- 3. Notwithstanding the foregoing, The granting by the District of breakdown relief or the issuance by the Hearing Board of a variance will not provide relief from federal enforcement unless the Major Facility Review Permit has been modified pursuant to Regulation 2, Rule 6. (MOP Volume II, Part 3, §4.8)

I. Severability

In the event that any provision of this permit is invalidated by a court or tribunal of competent jurisdiction, or by the Administrator of the EPA, all remaining portions of the permit shall remain in full force and effect. (Regulation 2-6-409.5; MOP Volume II, Part 3, §4.10)

J. Miscellaneous Conditions

The maximum capacity for each source as shown in Table II-A is the maximum allowable capacity. Exceedance of the maximum allowable capacity for any source is a violation of Regulation 2, Rule 1, Section 301. (Regulation 2-1-301

Expiration Date: December 18, 2003[ENTER DATE]

D. BNNRTH

II. EQUIPMENT LIST

A.Permitted Source List

Each of the following sources has been issued a permit to operate pursuant to the requirements of BAAQMD-Regulation 2 1-302.

Table II-A

Each of the following sources has been issued a permit to operate pursuant to the requirements of BAAQMD Regulation 2, Permits. The capacities in this table are the maximum allowable capacities for each source, pursuant to Standard Condition J and Regulation 2-1-301.

S-#	Description	Make or Type	Model	Capacity
1	Sludge Drying Operation	Carver Greenfield	Custom	0.71 dry tons/hr
2	Product Silo	Custom	Custom	1200 cubic feet
5	Sludge Feed Storage Tank	Custom	Custom	2000 gal
10	Gas Turbine (natural gas, refinery gas)	John Brown PG6551B	Frame 6	500 MM Btu/hr
11	Gas Turbine (natural gas, refinery gas)	John Brown PG6551B	Frame 6	500 MM Btu/hr
<u>12</u>	Diesel IC Engine for Gas Turbine Start	<u>Detroit Diesel</u>	7123-7300, V-71 Turbo	750 BHP
<u>13</u>	Diesel IC Engine for Gas Turbine Start	<u>Detroit Diesel</u>	7123-7300, V-71 Turbo	750 BHP
<u>14</u>	Diesel IC Engine for Emergency Power Generation	Caterpillar	<u>3406 Turbo</u>	<u>375 BHP</u>

Table II-B <u>- Abatement Devices</u>

		Source(s)	Applicable	Operating	Limit or
A-#	Description	Controlled	Requirement	Parameters	Efficiency
1	Carbon Adsorber	1	BAAQMD	None	N/A
			7-301		
2	Baghouse Filter	2	BAAQMD	None	0.15 gr/dscf
			6-310		

Facility Name: Martinez CogenMCLP
Permit for Facility #: A1820
Expiration Date: [ENTER DATE]
ID: BNNRTH

II. Equipment List

Table II C – Significant Sources

The following source is exempt from the requirement to obtain an authority to construct and permit to operate, but is defined as a significant source pursuant to BAAQMD

Regulation 2-6-239.

<u>S-#</u>	Description	Make or Type	Model	<u>Capacity</u>
<u>N/A</u>	Cooling Tower	<u>Unknown</u>	<u>N/A</u>	23,000 GPM

III. GENERALLY APPLICABLE REQUIREMENTS

The permit holder shall comply with all applicable requirements, including those specified in the BAAQMD and SIP Rules and Regulations and other federal requirements cited below. These requirements apply in a general manner to the facility and/or to sources exempt from the requirement to obtain a District Permit to Operate. The District has determined that these requirements would not be violated under normal, routine operations, and that no additional periodic monitoring or reporting to demonstrate compliance is warranted. In cases where a requirement, in addition to being generally applicable, is also specifically applicable to one or more sources, the requirement and the source are also included in Section IV, Source-Specific Applicable Requirements, of this permit. This section also contains provisions that may apply to temporary sources.

The dates in parenthesies in the Title column identify the versions of the regulations being cited and are, as applicable:

- 1. BAAQMD regulation(s): The date(s) of adoption or most recent amendment of the regulation by the District Board of Directors.
- 2. Any federal requirement, including a version of a District regulation that has been approved into the SIP: The most recent date of EPA approval of any portion of the rule, encompassing all actions on the rule through that date.
 - Where an applicable requirement is a SIP requirement, the full language of the SIP requirement is included in Appendix A of this permit.

The full language of SIP requirements is on EPA Region 9's website. The address is included at the end of this permit.

NOTE:

There are differences between current BAAQMD rules and versions of the rules in the SIP. For specific information, contact the District's Planning and Research Division. All sources must comply with <u>both</u> versions of a rule until the U.S. EPA has reviewed and approved (or disapproved) the District's revision of the regulation.

Table III Generally Applicable Requirements

		Federally
Applicable	Regulation Title or	Enforceable
Requirement	Description of Requirement	(Y/N)
BAAQMD Regulation 1	General Provisions and Definitions (11/3/935/2/01)	N
SIP Regulation 1	General Provisions and Definitions (11/10/828/27/99)	Y
BAAQMD Regulation 2, Rule 1	General Requirements (8/1/01)	<u>N</u>
BAAQMD 2-1-429	Federal Emissions Statement (6/7/95)	<u>Y</u>

III. Generally Applicable Emission Requirements (continued)

Table III Generally Applicable Requirements

		Federally
Applicable	Regulation Title or	Enforceable
Requirement	Description of Requirement	(Y/N)
SIP Regulation 2, Rule 1	General Requirements (8/27/99)	<u>Y</u>
BAAQMD Regulation 4	Air Pollution Episode Plan (3/20/91)	N
SIP Regulation 4	Air Pollution Episode Plan (8/06/90)	Y
BAAQMD Regulation 6	Particulate Matter and Visible Emissions (12/19/90)	N
BAAQMD Regulation 7	Odorous Substances (3/17/82)	N
BAAQMD Regulation 8	Organic Compounds	N
BAAQMD Regulation 8, Rule 1	Organic Compounds - General Provisions (6/15/94)	Y
BAAQMD Regulation 8, Rule 2	Organic Compounds – Miscellaneous Operations (6/15/94)	<u>Y</u>
BAAQMD Regulation 8, Rule 3	Organic Compounds - Architectural Coatings (12/20/9511/21/01)	<u>¥N</u>
SIP Regulation 8, Rule 3	Organic Compounds - Architectural Coatings (2/18/98)	<u>Y</u>
BAAQMD Regulation 8, Rule 4	Organic Compounds – General Solvent and Surface Coating Operations (10/16/02)	N
SIP Regulation 8, Rule 4	Organic Compounds – General Solvent and Surface Coating Operations (12/23/97)	<u>Y</u>
BAAQMD Regulation 8, Rule 16	Organic Compounds - Solvent Cleaning Operations (10/16/02)	<u>N</u>
SIP Regulation 8, Rule 16	Organic Compounds - Solvent Cleaning Operations (12/9/94)	<u>Y</u>
BAAQMD Regulation 8, Rule 40	Organic Compounds - Aeration of Contaminated Soil and Removal of Underground Storage Tanks (12/15/99)	<u>Y</u>
BAAQMD Regulation 8, Rule 47	Organic Compounds - Air Stripping and Soil Vapor Extraction Operations (6/15/94)	<u>Y</u>
BAAQMD Regulation 8, Rule 49	Organic Compounds - Aerosol Paint Products (12/20/95)	N
SIP Regulation 8, Rule 49	Organic Compounds - Aerosol Paint Products (3/22/95)	Y
BAAQMD Regulation 8, Rule 51	Organic Compounds - Adhesive and Sealant Products (12/20/957/17/02)	N
SIP Regulation 8, Rule 51	Organic Compounds - Adhesive and Sealant Products (2/26/02)	<u>Y</u>
BAAQMD Regulation 11, Rule 1	Hazardous Pollutants - Lead (3/17/82)	<u>N</u>
SIP Regulation 11, Rule 1	Hazardous Pollutants – Lead (9/2/81)	<u>Y</u>
BAAQMD Regulation 11, Rule 2	Hazardous Pollutants - Asbestos Demolition, Renovation and Manufacturing (10/7/98)	<u>N</u>

Facility Name: Martinez CogenMCLP
Permit for Facility #: A1820
Expiration Date: [ENTER DATE]
ID: BNNRTH

III. Generally Applicable Emission Requirements (continued)

Table III Generally Applicable Requirements

		Federally
Applicable	Regulation Title or	Enforceable
Requirement	Description of Requirement	(Y/N)
BAAQMD Regulation 12, Rule 4	Miscellaneous Standards of Performance - Sandblasting	N
	(7/11/90)	
SIP Regulation 12, Rule 4	Miscellaneous Standards of Performance - Sandblasting	Y
	(9/2/81)	
California Health and Safety Code	Air Toxics "Hot Spots" Information and Assessment Act	<u>N</u>
Section 44300 et seq.	<u>of 1987</u>	
40 CFR Part 61, Subpart M	National Emission Standards for Hazardous Air Pollutants	<u>Y</u>
	 National Emission Standard for Asbestos (6/19/95) 	

Expiration Date: December 18, 2003 ENTER DATE

D. BNNRTH

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

The permit holder shall comply with all applicable requirements, including those specified in the BAAQMD and SIP Rules and Regulations and other federal requirements cited below. The requirements cited in the following tables apply in a specific manner to the indicated source(s).

The dates in parenthesies in the Title column identify the versions of the regulations being cited and are, as applicable:

- 1. BAAQMD regulation(s): The date(s) of adoption or most recent amendment of the regulation by the District Board of Directors.
- Any federal requirement, including a version of a District regulation that has been approved into the SIP: The most recent date of EPA approval of any portion of the rule, encompassing all actions on the rule through that date.

The full text of each permit condition cited is included in Section VI, Permit Conditions, of this permit. Additionally, where an applicable requirement is a SIP requirement, the full language of the SIP requirement is included in Appendix A of this permit on EPA Region 9's website. The address is included at the end of this permit. All other text may be found in the regulations themselves.

Table IV-A Source-Specific Applicable Requirements S-1, S-2: Sludge Drying Operation & Product Silo

		Federally	<u>Future</u>
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	<u>(Y/N)</u>	<u>Date</u>
BAAQMD	Particulate Matter and Visible Emissions (12/19/90)		
Regulation 6			
<u>6-301</u>	Ringelmann Number 1 Limitation	<u>Y</u>	
<u>6-305</u>	<u>Visible Particles</u>	<u>Y</u>	
<u>6-310</u>	Particulate Weight Limitation	<u>Y</u>	
<u>6-311</u>	Process Weight Limitation	<u>Y</u>	
<u>6-401</u>	Appearance of Emissions	<u>Y</u>	
BAAQMD			
Condition			
<u>#390</u>			
Part 1	Objectionable odors (basis: BAAQMD Regulation 7)	<u>N</u>	

Expiration Date: December 18, 2003 ENTER DATE

ID: BNNRTH

IV. Source-Specific Applicable Requirements (continued)

Table IV-B Source-Specific Applicable Requirements S-5: Sludge Feed Storage Tank

		<u>Federally</u>	<u>Future</u>
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	<u>(Y/N)</u>	<u>Date</u>
BAAQMD			
Condition			
<u>#390</u>			
Part 1	Objectionable odors (basis: BAAQMD Regulation 7)	<u>N</u>	

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD			
Regulation 1	General Provisions and Definitions (11/3/935/2/01)		
1-208	Breakdown (malfunction)	Y	
1-431	Breakdown Report	Y	
1-432	Written Breakdown Report	Y	
1-433	Determination of Breakdown	Y	
<u>1-520</u>	Continuous Emission Monitoring	<u>Y</u>	
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	<u> </u>	
1-522.1	Plans and Specifications	Y	
1-522.2	Installation Scheduling	Y	
1-522.3	Performance Testing	Y	
1-522.4	Periods of Inoperation Greater Than 24 Hours	Y	
1-522.5	Calibration	Y	
1-522.6	Accuracy	Y	
1-522.7	Excesses	<u> </u>	
1-522.8	Monthly Reports	Y	
1-522.9	Records	Y	
1-522.10	Monitors Required by Sections 1-521 or 2-1-403	Y	

Expiration Date: December 18, 2003 ENTER DATE

ID: BNNRTH

IV. Source-Specific Applicable Requirements (continued)

		Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
1-602	Area and Continuous Emission Monitoring Requirements	<u>NY</u>	
SIP	PROVISIONS NO LONGER IN CURRENT RULE		
Regulation 1	General Provisions and Definitions (11/10/82)		
1-541	Emission Excesses	¥ ⁴	
1-602	Area and Continuous Emission Monitoring Requirements	¥ ⁴	
SIP	General Provisions and Definitions (6/28/99)		
Regulation 1			
<u>1-522</u>	Continuous Emission Monitoring and Recordkeeping Procedures	<u>Y</u> ¹	
<u>1-522.7</u>	emission limit exceedance reporting requirements	<u>Y</u> ¹	
BAAQMD	Regulation 2, Rule 1 - Permits, General Requirements		
Regulation 2,	(6/7/95 <u>8/1/01</u>)		
Rule 1			
2-1-501	Monitors	<u>NY</u>	
BAAQMD	Particulate Matter and Visible Emissions (12/19/90)		
Regulation 6			
6-301	Ringelmann Number 1 Limitation	<u>NY</u>	
6-305	Visible Particles	Y	
6-310	Particulate Weight Limitation	Y	
6-401	Appearance of Emissions	Y	
BAAQMD	Inorganic Gaseous Pollutants- Sulfur Dioxide (3/15/95)		
Regulation 9,			
Rule 1			
9-1-301	Limitations on Ground Level Concentrations	<u>NY</u>	
9-1-302	General Emission Limitations	Y	
SIP	PROVISIONS NO LONGER IN CURRENT RULE		
Regulation 9,	Inorganic Gaseous Pollutants — Sulfur Dioxide (5/3/84)		
Rule 1			
9-1-301	Limitations on Ground Level Concentrations	Y [‡]	
BAAQMD	Inorganic Gaseous Pollutants- Hydrogen Sulfide (3/17/82)		
Regulation 9, Rule 2			
9-2-301	Limitations on Ground Level Concentrations	N	
9-2-501	Area Monitoring Requirements	N	
, <u> </u>	1 100 110111011115 requirements	1,1	ļ

Expiration Date: December 18, 2003 ENTER DATE

ID: BNNRTH

IV. Source-Specific Applicable Requirements (continued)

		Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
BAAQMD	Inorganic Gaseous Pollutants- Nitrogen Oxides from Stationary	Y	
Regulation 9,	Gas Turbines (5/5/93 <u>9/21/94</u>)		
Rule 9			
9-9-113	Exemption- Inspection and Maintenance	Y	
9-9-114	Exemption- Start-up and Shutdown	Y	
9-9-301	Emission Limits, General	Y	
9-9-301.2	Emission Limits, Turbines over 10.0 MW w/o SCR	Y	
9-9-401	Efficiency Certification	Y	
9-9-501	Monitoring and Recordkeeping requirements	Y	
BAAQMD	Continuous Emission Monitoring Policy and Procedures	Y	
Manual of	(1/20/82)		
Procedures,			
Volume V			
40 CFR 60	Standards of Performance for New Stationary Sources	Y	
	(12/23/71)		
Subpart A	General Provisions	Y	
60.4(b)	Reports to EPA and District	Y	
60.7(a)(4)	Written notification of physical or operational changes	Y	
60.7(b)	Records	Y	
60.8	Performance Tests	Y	
60.9	Availability of Information	Y	
60.11(a)	Compliance with standards and maintenance requirements	Y	
60.11(d)	Minimizing emissions	Y	
60.12	Circumvention	Y	
60.19	General notification and reporting requirements	Y	
Subpart GG	Standards of Performance for Stationary Gas Turbines (1/27/82)		
60.332 (a)(1)	NOx Performance Standard	Y	
60.333 (b)	Fuel Sulfur Limit	Y	
60.335(b)	NOx and SO ₂ testing	Y	
60.335(c)(1)	Calculation of NOx emission rate	Y	
60.335(c)(3)	Use of Method 20	Y	
60.335(d)	Test for sulfur content of fuel	Y	

Expiration Date: December 18, 2003 ENTER DATE

D: BNNRTH

IV. Source-Specific Applicable Requirements (continued)

		Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
60.335(e)	Tests for sulfur and nitrogen content	Y	
BAAQMD			
Condition			
#13422			
part 1	Fuel usage rate and fuel type limitations (basis: Cumulative	Y	
	Increase)		
part 2	Emissions limits: PM, Hydrocarbons, NOx, SO ₂ , CO, fuel limits (basis: Cumulative Increase)	Y	
part 2	Emissions limits: NOx (basis: Regulation 9, Rule 9/Banking Certificate)	Y	
part 3	NOx concentration limit (basis: Regulation 9, Rule 9)	Y	
part 4	H ₂ S concentration limit in fuel (basis: Cumulative Increase)	Y	
part 5	Monitoring and Recordkeeping requirements (basis: BACT, Cumulative Increase)	Y	
parts 6- through 10	Monitoring and Recordkeeping requirements (basis: Banking Certificate)	Y	
part 11	Annual source test for CO (Basis: Regulation 2-6-409.2)	Y	
part 12	Inspections for hydrogen sulfide leaks (Basis: Regulation 9, Rule 2)	N	
BAAQMD			
Condition			
#21109			
PSD Permit			
III.	Facilities Operation	Y	
V.	Right of Entry	Y	
VI.	Transfer of Ownership	Y	
VII.	Severability	Y	
VIII.	Other Applicable Regulations	Y	
IX.C.	NO _X Emission Limits	Y	
IX.D.	Performance Tests	Y	
IX.E.1.b	Stack Volumetric Flow Rates	Y	
IX.E.3.e	Excess Emissions	Y	
IX.F.	Fuel Usage	Y	

Expiration Date: December 18, 2003 [ENTER DATE]

D: BNNRTH

IV. Source-Specific Applicable Requirements (continued)

This section has been removed from BAAQMD Regulations because it has been superseded. Nevertheless, the source must comply with this regulation until US EPA has reviewed and approved (or disapproved) the District's revision of the regulation.

Table IV-B

S-1, S-2, S-5: Sludge Drying Operation, Product Silo, & Sludge Feed Storage Tank

		Federally	Future-
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
BAAQMD-			
Condition			
# <mark>390</mark>			
Part 1	Objectionable odors (basis: BAAQMD Regulation 7)	N	

<u>Table IV – D</u> <u>Source-Specific Applicable Requirements</u> S-12, S-13 DIESEL IC ENGINES FOR GAS TURBINE START

		Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	<u>(Y/N)</u>	<u>Date</u>
BAAQMD			
Regulation 6	Particulate Matter and Visible Emissions (12/19/90)		
<u>6-303</u>	Ringelmann No. 2 Limitation	<u>Y</u>	
<u>6-303.1</u>	Internal combustion engines below 1500 cubic inches displacement	<u>Y</u>	
	or standby engines		
<u>6-305</u>	<u>Visible Particles</u>	<u>Y</u>	
<u>6-310</u>	Particulate Weight Limitation	<u>Y</u>	
<u>6-401</u>	Appearance of Emissions	<u>Y</u>	
BAAQMD	Inorganic Gaseous Pollutants – Sulfur Dioxide (3/15/95)		
Regulation 9,			
Rule 1			
<u>9-1-301</u>	<u>Limitations on Ground Level Concentrations</u>	<u>Y</u>	
9-1-304	<u>Liquid and Solid Fuels</u>	<u>Y</u>	

Expiration Date: December 18, 2003 [ENTER DATE]

ID: BNNRTH

IV. Source-Specific Applicable Requirements (continued)

<u>Table IV – D</u> <u>Source-Specific Applicable Requirements</u> <u>S-12, S-13 DIESEL IC ENGINES FOR GAS TURBINE START</u>

		Federally	<u>Future</u>
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	<u>(Y/N)</u>	<u>Date</u>
BAAQMD			
Condition			
<u>#18843</u>			
part 1	Hours of operation (basis: Cumulative Increase)	<u>Y</u>	
part 2	Low Sulfur Fuel requirement, demonstration of sulfur content (basis:	<u>Y</u>	
	Regulation 9-1-304)		
part 3	Recordkeeping (basis: Cumulative Increase, Regulation 9-1-304)	<u>Y</u>	

<u>Table IV – E</u> <u>Source-Specific Applicable Requirements</u> S-14 DIESEL IC ENGINE FOR EMERGENCY POWER GENERATION

		Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	<u>(Y/N)</u>	<u>Date</u>
BAAQMD			
Regulation 6	Particulate Matter and Visible Emissions (12/19/90)		
<u>6-303</u>	Ringelmann No. 2 Limitation	$\underline{\mathbf{Y}}$	
<u>6-303.1</u>	Internal combustion engines below 1500 cubic inches displacement	<u>Y</u>	
	or standby engines		
<u>6-305</u>	<u>Visible Particles</u>	<u>Y</u>	
<u>6-310</u>	Particulate Weight Limitation	<u>Y</u>	
<u>6-401</u>	Appearance of Emissions	<u>Y</u>	
BAAQMD	Inorganic Gaseous Pollutants – Sulfur Dioxide (3/15/95)		
Regulation 9,			
Rule 1			
<u>9-1-301</u>	<u>Limitations on Ground Level Concentrations</u>	<u>Y</u>	
<u>9-1-304</u>	Liquid and Solid Fuels	<u>Y</u>	
BAAQMD	Inorganic Gaseous Pollutants - Nitrogen Oxides and Carbon		
Regulation 9,	Monoxide from Stationary Internal Combustion Engines (8/1/01)		
Rule 8			
<u>9-8-303</u>	Emergency Standby Engines, Hours of Operation	<u>Y</u>	
<u>9-8-530</u>	Emergency Standby Engines, Monitoring and Recordkeeping	<u>Y</u>	

Expiration Date: December 18, 2003 ENTER DATE

D: BNNRTH

IV. Source-Specific Applicable Requirements (continued)

<u>Table IV – E</u> <u>Source-Specific Applicable Requirements</u> S-14 DIESEL IC ENGINE FOR EMERGENCY POWER GENERATION

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD			
Condition			
<u>#18844</u>			
part 1	Hours of operation for testing and maintenance (basis: Cumulative	<u>Y</u>	
	<u>Increase</u>)		
part 2	Low Sulfur Fuel requirement, demonstration of sulfur content (basis:	<u>Y</u>	
	Regulation 9-1-304)		
part 3	Recordkeeping (basis: Cumulative Increase, Regulation 9-1-304)	<u>Y</u>	

Table IV - F Source-specific Applicable Requirements COOLING TOWER

		Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	<u>(Y/N)</u>	Date
<u>6-301</u>	Ringelmann No. 1 Limitation	<u>Y</u>	
<u>6-305</u>	<u>Visible Particulates</u>	<u>Y</u>	
<u>6-310</u>	Particulate Weight Limitation	<u>Y</u>	
<u>6-401</u>	Appearance of Emissions	<u>Y</u>	

Facility Name: Martinez CogenMCLP

Permit for Facility #: A1820

Expiration Date: December 18, 2003 [ENTER DATE]

ID: BNNRTH

V. SCHEDULE OF COMPLIANCE

The permit holder shall continue to comply with all applicable requirements cited in this permit. The permit holder shall also comply with applicable requirements that become effective during the term of this permit on a timely basis.

Expiration Date: December 18, 2003[ENTER DATE]

ID- RNNRTI

VI. Permit Conditions (continued)

VI. PERMIT CONDITIONS

Any condition that is preceded by an asterisk is not federally enforceable.

A. Source Specific Permit Conditions

Condition #390

For: S-1, Sludge Drying Operation

S-2, Product Silo

S-5, Sludge Feed Storage Tank

*1. In the event the APCO determines that a source/s in the operation creates objectionable odors, such source/s shall have added controls to abate these odors. (Basis: Regulation 7)

Condition #13422 (as proposed in Banking application 17207)

For S-10, S-11: Gas Turbines

- 1. The <u>combined_total</u> fuel usage rate at each of the gas turbines S-10 and S-11 shall not exceed 500 million BTU/hr. The turbines shall be fired on natural gas or refinery gas exclusively. (Basis: Cumulative Increase)
- 2. The combined emissions from the two turbines shall not exceed the following:

 PM10

 240 lbs/day and 43.8 TPY (Basis: Cumulative Increase)

 NMHC

 210 lbs/day and 35 TPY (Basis: Cumulative Increase)

 Sulfur Dioxides

 Carbon Monoxide

 1,248 lbs/day and 228 TPY (Basis: Cumulative Increase)

 Nitrogen Original 1,512 lbs/day and 228 TPY (Basis: Cumulative Increase)

Nitrogen Oxides 1,512 lbs/day and 198.5 TPY (Basis: Banking-

Certificate Offsets, Cumulative Increase)

If the emissions of sulfur dioxide emissions in a calendar year reach 36 tons, these turbines shall be fired exclusively on natural gas for the remainder of the year. (Basis: Cumulative Increase)

Expiration Date: December 18, 2003 [ENTER DATE]

ID: BNNRTI

IV. Source-Specific Applicable Requirements (continued)

Condition #13422

For S-10, S-11: Gas Turbines

- 3. The oxides of nitrogen (NOx) concentration in the gas turbine exhaust shall not exceed 17.1 ppmv (15 ppm adjusted based on efficiency per Regulation 9-9-401) at 15% oxygen (dry basis) averaged over any consecutive 3-hour period whether firing refinery and/or natural gas. This limit shall not apply during the start-up, which is not to exceed three hours, or during the shutdown procedure, which is not to exceed one hour. (Basis: Regulation 9, Rule 9)
- 4. The concentration of hydrogen sulfide (H2S) in the fuel gas to both turbines shall not exceed 62 ppm annual average. This average shall not include periods when both turbines are not operating. The annual average shall be determined by summing daily averages and dividing by the number of days that at least one turbine was operating. (Basis: Cumulative Increase)
- 5. The operator shall install, calibrate and operate District-approved monitors for NOx, oxygen, H2S (in the fuel), fuel gas usage, and electricity production. The monitoring system shall be designed to calculate and record NOx mass emissions from S-10 and S-11 on an hourly, daily, monthly, and rolling 12 month basis, as well as demonstrating 3-hour average compliance with the Regulation 9, Rule 9 adjusted NOx limit of 17.1 ppmv @ 15% O2 dry. Emissions reports shall be submitted to the District on a monthly basis. (Basis: Cumulative Increase,—Banking CertificateOffsets)
- 6. Until such time as sufficient CEM data is available to demonstrate rolling 12-month NOx emissions, combined monthly NOx emissions from the gas turbines S-10 and S-11 shall not exceed 20 tons. (Basis: Banking Certificate Offsets).
- 7. In order to demonstrate NOx mass reductions for banked emissions credits during periods of monitor downtime, the owner/operator of the gas turbines S-10 and S-11 shall substitute average hourly NOx mass emissions for the missing period with the higher of the following: (Basis: Banking CertificateOffsets)
 - 1) Previous month average NOx mass emission rate.
 - 2) Average of the NOx mass emission rates for the hour before and the hour after the missing period.

In the event that such data is not available, the highest allowable NOx mass emission rate (i.e. 31.5 lb/hour per turbine) shall be substituted for the missing period.

Expiration Date: December 18, 2003[ENTER DATE]

D: BNNRTI

IV. Source-Specific Applicable Requirements (continued)

Condition #13422

For S-10, S-11: Gas Turbines

- 8. Data shall be substituted on an average hourly basis each time NOx mass emissions can not be measured because a monitor is out of service. Substituted emissions data shall be added to the monthly reports and shall include: (Basis: Banking CertificateOffsets)
 - a. monthly total hours of substituted data resulting from monitor downtime
 - b. substituted NOx mass emissions and method of substitution for each downtime period during the month
 - c. monthly total of substituted NOx mass emissions
 - d. rolling 12 month total of substituted NOx mass emissions
- 9. In the event that NOx mass emissions from S-10 and S-11 exceed 198.5 tons in any calendar year, the facility owner/operator shall apply for a modification of their permit to operate and shall reimburse the District with emission reduction credits for the amount of the exceedance. All emission credit reimbursements shall be permanent until such time that the facility owner/operator reapplies for and is granted credits by the District. (Basis: Banking CertificateOffsets)
- 10. Copies of all continuous emission monitor and data substitution records shall be kept on site and be made available for inspection by District personnel upon request for a period of 5 years from the date that a record is made. This provision shall apply to all new records and all records that have been made within the two years previous to issuance of the Major Facility Review permit. (Basis: Regulation 2-6-501)
- 11. The facility owner/operator shall ensure that an annual performance test is conducted on each turbine in accordance with the District test procedures to demonstrate compliance with the CO limit. The owner/operator may submit an alternative monitoring plan to the District for approval. If the alternative monitoring plan is approved, the plan shall supersede the annual source test requirement. Approvals shall be processed using the permit modification procedure contained in Regulation 2, Rule 6. (Basis: Regulation 2-6-409.2)

IV. Source-Specific Applicable Requirements (continued)

Condition #13422

For S-10, S-11: Gas Turbines

- *12. The owner or operator shall conduct weekly hydrogen sulfide leak equipment inspection either visually, or by audible or olfactory detection methods. Hydrogen sulfide leaks as indicated by visual, audible, or olfactory methods, shall be repaired as soon as practicable, but no later than 7 days after the leak is detected. The owner or operator shall monitor and record the following information:
 - a. For each inspection during which a leak is detected, a record of the date, operator name, and identification of the equipment where the leak occurred.
 - b. For each inspection during which no leak is detected, a record that the inspection was performed, the date of the inspection, and a statement that no leaks were detected.

(Basis: Regulation 9, Rule 2)

Condition #18843

For S-12, S-13: Diesel IC Engines for Gas Turbine Start

- 1. The Diesel Engines S-12 and S-13 shall each be limited to 190 hours per year of operation. (basis: Cumulative Increase)
- 2. Only low sulfur fuel (<0.5% sulfur by weight) shall be combusted at S-12 and S-13. The maximum sulfur content of the fuel shall be demonstrated by vendor certification. (basis: Regulation 9-1-304)
- 3. In order to demonstrate compliance with the above requirements, the operator of S-12 and S-13 shall keep the following records in a District approved log. These records shall be updated on at least a monthly basis, kept on-site, and be available for District inspection for at least 5 years from the date on which a record was made. (basis: Cumulative Increase, Regulation 9-1-304)
 - a. operating hours for S-12 and S-13
 - b. vendor certified fuel sulfur content

Facility Name: Martinez CogenMCLP

Permit for Facility #: A1820

Expiration Date: December 18, 2003 ENTER DATE

D: BNNRTH

IV. Source-Specific Applicable Requirements (continued)

Condition #18844

For S-14: Diesel IC Engine for Emergency Power Generation

- 1. The Diesel Engine S-14 shall be limited to 100 hours per year each, for the purposes of testing and maintenance. (basis: Cumulative Increase)
- 2. Only low sulfur fuel (<0.5% sulfur by weight) shall be combusted at S-14. The maximum sulfur content of the fuel shall be demonstrated by vendor certification. (basis: Regulation 9-1-304)
- 3. In order to demonstrate compliance with the above requirements, the operator of S-14 shall keep the following records in a District approved log. These records shall be updated on at least a monthly basis, kept on-site, and be available for District inspection for at least 5 years from the date on which a record was made. (basis: Cumulative Increase, Regulation 9-1-304)
 - a. operating hours for S-14
 - b. vendor certified fuel sulfur content

B. Facility-wide Conditions

Condition #21109

PSD conditions

Following are the PSD conditions imposed by EPA and modified by the District in Application #25830.

- I. Deleted Application #25820.
- II. Deleted Application #25820.
- III. Facilities Operation

All equipment, facilities, and systems installed or used to achieve compliance with the terms and conditions of this Permit to Operate shall at all times be maintained in good working order and be operated as efficiently as possible so as to minimize air pollutant emissions. (PSD)

IV. Deleted Application #25820.

IV. Source-Specific Applicable Requirements (continued)

Condition #21109 PSD conditions

V. Right to Entry

The EPA Regional Administrator, the head of the California Air Resources Board, the APCO of the District, and/or their authorized representatives, upon the presentation of credentials, shall be permitted:

- A. to enter upon the premises where the source is located or in which any records are required to be kept under the terms and conditions of this Permit to Operate; and
- B. at reasonable times to have access to and copy any records required to be kept under the terms and conditions of this Permit to Operate; and
- C. to inspect any equipment, operation, or method required in this Permit to Operate; and
- D. to sample emissions from the source. (PSD)

VI. Transfer of Ownership

In the event of any changes in control or ownership of facilities to be constructed or modified, this Permit to Operate shall be binding on all subsequent owners and operators. The applicant shall notify the succeeding owner and operator of the existence of this Permit to Operate and its conditions by letter, a copy of which shall be forwarded to the Regional Administrator and the Sate and local Air Pollution Control Agency. (PSD)

VII. Severability

The provisions of this Permit to Operate are severable, and, if any provision of this Permit to Operate is held invalid, the remainder of this Permit to Operate shall not be affected thereby. (PSD)

VIII. Other Applicable Regulations

Expiration Date: December 18, 2003 [ENTER DATE]

D: BNNRTI

IV. Source-Specific Applicable Requirements (continued)

Condition #21109 PSD conditions

The owner and operator of the project shall construct and operate the stationary source in compliance with all other applicable provisions of 40 CFR Parts 52, 60 and 61 and all other applicable Federal, State and local air quality regulations other than those monitoring requirements that have been subsumed by the permit shield. (PSD)

IX. Special Conditions

- A. deleted Application #25830.
- B. deleted Application #25830.
- C. Emission Limits for NOx.

MCLP shall not discharge or cause the discharge into the atmosphere from the exhaust stack of any turbine, the following pollutants in excess of the following limits:

Pollutant	Mass Emission Limit	Concentration Emission Limit
NOx (as NO2)	81.0 #/hr/turbine	45.0 ppm @ 15% O2

The above emission limits shall be measured on a 3-hr average, for the purpose of source tests (but not during a 3-hr period following commencement of startup or a 1-hr period preceding completion of shutdown). Averaging times for continuous emission monitors shall be as specified in E, below. (PSD)

D. Performance Tests

1. MCLP shall conduct or cause to be conducted performance for nitrogen oxides (NOx) at such times as may be specified by the District or by EPA.

Expiration Date: December 18, 2003 [ENTER DATE]

): BNNRTH

IV. Source-Specific Applicable Requirements (continued)

Condition #21109 PSD conditions

MCLP shall furnish the Bay Area Air Quality Management District-a written report of each such test. All performance tests shall be conducted at the maximum operating capacity of the unit being tested. (PSD)

- 2. Performance tests for the emissions of NOx shall be conducted and results reported in accordance with the test methods set forth in 40 CFR 60 Appendix A, and 40 CFR 60.8. The following test methods shall be used:
 - a. Performance tests for the emission of NOx shall be conducted using EPA Method 20. (PSD)
- 3. At least 30 days prior to actual testing, MCLP shall submit to the District's Source Test Section (1) a quality assurance project plan detailing methods and procedures to be used and (2) a written quality assurance test plan. Such a plan shall conform to EPA guidelines for developing project plans. A test plan or QA plan that does not have District approval may be grounds to invalidate any test and require a retest. (PSD)

E. Continuous Monitoring

- 1. NOX Continuous Monitoring:
 - a. Condition IX.E.1a subsumed by Application #25820.
 - b. Stack gas volumetric flow rates shall be calculated using the F-factor method in EPA Method 19. (PSD)
- 2. Deleted Application #25820.
- 3. Report of excess emissions:.
 - a. Condition IX.E.3a subsumed by Application #25820.
 - b. Condition IX.E.3b subsumed by Application #25820.
 - c. Condition IX.E.3c subsumed by Application #25820.
 - d. Condition IX.E.3d subsumed by Application #25820.

Expiration Date: December 18, 2003 [ENTER DATE]

D: BNNRTI

IV. Source-Specific Applicable Requirements (continued)

Condition #21109 PSD conditions

e. Excess emissions shall be defined as: any consecutive 3-hour period (but not during a 3-hr period following commencement of startup or a 1-hr period preceding completion of shutdown) during which the mass emissions of NOX or the NOX concentration, as measured by the continuous monitoring system, exceeds the maximum emission limits set in IX.C above.

Excess emissions indicated by the CEM system shall be considered violations of the applicable emission limit for the purposes of this permit. (PSD)

- 4. deleted Application #25830.
- 5. deleted Application #25830.
- 6. Condition IX.E.6 subsumed by Application #25820.

F. Fuel Use

MCLP shall not consume more than 500.0 MMBTU/hr per turbine on a one hour average. MCLP shall measure and record the heating value of the fuel consumed in the turbine on at least a monthly basis. Refinery gas or natural (pipeline) gas shall be the only fuels consumed. (PSD)

X. Agency Notifications

All correspondence as required by this Permit to Operate shall be forwarded to:

- A. Deleted Application #25820.
- B. Deleted Application #25820.
- C. Air Pollution Control Officer
 Bay Area Air Quality Management District
 939 Ellis Street
 San Francisco, CA 94109

Expiration Date: December 18, 2003 [ENTER DATE]

D. BNNRTH

VII. APPLICABLE **EMISSION**-LIMITS & COMPLIANCE MONITORING REQUIREMENTS

This section has been included only to summarize the applicable emission limits contained in Section IV, Source-Specific Applicable Requirements, of this permit. The following tables show the relationship between each emission limit and the associated compliance monitoring provisions, if any. The monitoring frequency indicates whether periodic (P) or continuous (C) monitoring is required. For periodic monitoring, the frequency of the monitoring has also been shown, either annual (A), quarterly (Q), monthly (M), daily (D), or on an event basis (E). No monitoring (N) has been required if the current applicable rule or regulation does not require monitoring, and the operation is unlikely to deviate from the applicable emission limit based upon the nature of the operation.

Table VII-A

Applicable Limits and Compliance Monitoring Requirements
S-1, S-2: Sludge Drying Operation & Product Silo

<u>Limit</u>	Emission		Future		Monitoring	Monitoring	
<u>or</u>	<u>Limit</u>	<u>FE</u>	Effective		Requirement	Frequency	Monitoring
Pollutant	<u>Citation</u>	<u>Y/N</u>	<u>Date</u>	Emission Limit	<u>Citation</u>	(P/C/N)	<u>Type</u>
Opacity	BAAQMD	<u>N</u>		Ringelmann No. 1		<u>N</u>	
	<u>6-301</u>						
<u>FP</u>	BAAQMD	<u>Y</u>		0.15 grain/dscf		<u>N</u>	
	<u>6-310</u>						
<u>FP</u>	BAAQMD	<u>Y</u>		3.4 lb/hr		<u>N</u>	
	Regulation 6-			(throughput = 0.71)			
	<u>311</u>			tons/hr)			

D: BNNRTH

VII. Applicable Emission-Limits & Compliance Monitoring Requirements (continued)

Table VII-AB <u>Applicable Limits and Compliance Monitoring Requirements</u> S-10, S-11: Gas Turbines

Limit	Emission		Future		Monitoring	Monitoring	
or	Limit	FE	Effective		Requirement	Frequency	Monitoring
Pollutant	Citation	Y/N	Date	Emission Limit	Citation	(P/C/N)	Type
NOx	BAAQMD	Y		17.1 ppmv dry @15%	BAAQMD	С	CEM
	9-9-301.2,			O ₂ , 3-hr average	9-9-501		
	9-9-401			excluding startup and			
				shutdown periods			
				(includes efficiency			
				adjustment)			
	BAAQMD	Y		1,512 #/day and	BAAQMD	С	CEM
	Condition			198.5 tons/yr	Condition		
	13422, part 2				13422, parts 5		
					through 10		
	BAAQMD	Y		17.1 ppmv dry @15%	BAAQMD	С	CEM
	Condition			O ₂ , 3-hr average	Condition		
	13422, part 3			excluding startup	13422, part 5		
				period not to exceed 3			
				hrs and shutdown			
				periods not to exceed			
				1 hr (includes			
				efficiency adjustment)			
NOx	NSPS	Y		85.2 ppmv , @ 15%	Monitoring	N	
	Subpart GG,			O2, dry, 3 hour	requirement		
	60.332 (a)(1)			average excluding	subsumed by		
				startup and shutdown	Regulation 9,		
				periods	Rule 9		
					monitoring.		
					See Permit		
					Shield.		

)· BNNRTH

VII. Applicable Emission-Limits & Compliance Monitoring Requirements (continued)

Table VII-AB Applicable Limits and Compliance Monitoring Requirements S-10, S-11: Gas Turbines

Limit	Emission		Future		Monitoring	Monitoring	
or	Limit	FE	Effective		Requirement	Frequency	Monitoring
Pollutant	Citation	Y/N	Date	Emission Limit	Citation	(P/C/N)	Type
NOx	PSD Permit	Y		81.0 #/hr/turbine, 3	Monitoring	N	
	Condition			hour average except	requirement		
	IX, C			for 3 hours following	subsumed by		
				commencement of	Regulation 9,		
				turbine startup and	Rule 9		
				1-hour preceding	monitoring.		
				completion of turbine	See Permit		
				shutdown	Shield.		
NOx	PSD Permit	Y		45.0 ppm @15% O ₂ ,	Monitoring	N	
	Condition			3 hour average except	requirement		
	IX,C			for 3 hours following	subsumed by		
				commencement of	Regulation 9,		
				turbine startup and 1-	Rule 9		
				hour preceding	monitoring.		
				completion of turbine	See Permit		
				shutdown	Shield.		
SO_2	BAAQMD	Y		550 #/day and 36	BAAQMD	С	CMS
	Condition			tons/yr	Condition		
	13422, part 2				13422, part 5		
	BAAQMD	N		GLC of 0.5 ppm for 3		N	
	9-1-301			min., or 0.25 ppm for			
				60 min., or 0.05 ppm			
				for 24 hours			
SO2	SIP	Y		Federal std: GLC ¹ of		N	
	9-1-301			140 ppb, 24-hr			
				average, once/yr and			
				30 ppb, annual			
				average			
				State std: GLC ¹ of 40			
				ppb, 24-hr average,			
				and 250 ppb, 1 hr			
				average			

D: BNNRTH

VII. Applicable Emission Limits & Compliance Monitoring Requirements (continued)

Table VII-AB Applicable Limits and Compliance Monitoring Requirements S-10, S-11: Gas Turbines

Limit	Emission		Future		Monitoring	Monitoring	
or	Limit	FE	Effective		Requirement	Frequency	Monitoring
Pollutant	Citation	Y/N	Date	Emission Limit	Citation	(P/C/N)	Type
SO2	BAAQMD	Y		300 ppm (dry)		N	
	9-1-302						
SO2	NSPS	Y		Sulfur content of fuel	Subsumed by	N	
	Subpart GG,			< 0.8% by weight	BAAQMD		
	60.333(b)				Cond #13422,		
					parts 4 and 5		
	BAAQMD	Y		≤ 62 ppm H2S in	BAAQMD	С	CMS
	Condition			refinery gas, annual	Condition		
	13422, part 4			average, (not emission	13422, part 4		
				limit)	and part 5		
CO	BAAQMD	Y		1,248 #/day and		P/A	annual
	Condition			228 tons/yr			source test
	13422, part 2						
NMHC	BAAQMD	Y		210 #/day and		N	
	Condition			35 tons/yr			
	13422, part 2						
PM10	BAAQMD	Y		240 #/day and		N	
	Condition			43.8 tons/yr			
	13422, part 2						
TSPOpaci	BAAQMD	N		Ringelmann No. 1		N	
<u>ty</u>	6-301						
TSPFP	BAAQMD	Y		0.15 grain/dscf @ 6%		N	
	6-310			O_2			
H ₂ S	BAAQMD	N		GLC of 0.06 ppm	BAAQMD	P/W	weekly
	9-2-301			3 min. average, or	Condition		inspection
				0.03 ppm 60 min.	13422, part 12		
				average			
Fuel	BAAQMD	Y		500 MMBtu/hr per	BAAQMD	С	records
Usage	Condition			turbine	Condition		
	13422,				13422, part 5		
	part 1						

Expiration Date: December 18, 2003 ENTER DATE

D: BNNRTI

VII. Applicable Emission-Limits & Compliance Monitoring Requirements (continued)

Table VII-AB <u>Applicable Limits and Compliance Monitoring Requirements</u> S-10, S-11: Gas Turbines

Limit	Emission		Future		Monitoring	Monitoring	
or	Limit	FE	Effective		Requirement	Frequency	Monitoring
Pollutant	Citation	Y/N	Date	Emission Limit	Citation	(P/C/N)	Type
Fuel	PSD Permit	Y		500 MMBtu/hr per	PSD Permit	С	records
Usage	Condition			turbine	Condition		
	VII, F.				VII, F.		

¹ Ground Level Concentration

Table VII-C Applicable Limits and Compliance Monitoring Requirements S-12, S-13 DIESEL IC ENGINES FOR GAS TURBINE START

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Opacity	BAAQMD Regulation 6-303	<u>Y</u>	<u>Date</u>	Ringelmann 2.0 for 3 minutes in any hour	Ciution	<u>N</u>	<u> </u>
<u>FP</u>	BAAQMD Regulation 6-310	<u>Y</u>		0.15 grain/dscf		<u>N</u>	
SO2	BAAQMD Regulation 9-1-301	<u>N</u>		ground level concentrations: 0.5 ppm for 3 consecutive minutes, 0.25 ppm averaged over 60 consecutive minutes, 0.05 ppm averaged over 24 hours	Condition #18843, part 2	<u>P/E</u>	Vendor fuel certification
<u>SO2</u>	BAAQMD Regulation 9-1-304	<u>Y</u>		0.5% sulfur limit for liquid fuel	Condition #18843, part 2	<u>P/E</u>	Vendor fuel certification

Facility Name: Martinez CogenMCLP

Permit for Facility #: A1820

Expiration Date: December 18, 2003 [ENTER DATE]

D: BNNRTH

VII. Applicable Emission Limits & Compliance Monitoring Requirements (continued)

Table VII-C Applicable Limits and Compliance Monitoring Requirements S-12, S-13 DIESEL IC ENGINES FOR GAS TURBINE START

Type of	Citation of	<u>FE</u>	Future Effective		Monitoring Requirement	Monitoring Frequency	<u>Monitoring</u>
<u>Limit</u>	<u>Limit</u>	<u>Y/N</u>	Date	<u>Limit</u>	<u>Citation</u>	<u>(P/C/N)</u>	<u>Type</u>
<u>SO2</u>	Condition	<u>N</u>		sulfur content of fuel	Condition	<u>P/E</u>	Vendor fuel
	<u>#18843,</u>			<0.5% by weight	#18843, part 2		<u>certification</u>
	part 2						
Hours of	Condition	<u>Y</u>		190 hours per year,	Condition	<u>P/E</u>	Recordkeeping
operation	<u>#18843,</u>			each engine	#18843, part 3		
	part 1						

Facility Name: Martinez CogenMCLP

Permit for Facility #: A1820

Expiration Date: December 18, 2003[ENTER DATE]

D: BNNRTI

VII. Applicable Emission Limits & Compliance Monitoring Requirements (continued)

Table VII-D Applicable Limits and Compliance Monitoring Requirements S-14 DIESEL IC ENGINE FOR EMERGENCY POWER GENERATION

T 6	Citation		<u>Future</u>		Monitoring	Monitoring	Marita da
Type of Limit	Citation of Limit	FE Y/N	Effective Date	Limit	Requirement Citation	Frequency (P/C/N)	Monitoring Type
	BAAQMD		Date	Ringelmann 2.0 for 3	Citation		<u>1 y p c</u>
<u>Opacity</u>	Regulation	<u>Y</u>		minutes in any hour		<u>N</u>	
	6-303						
	<u>0-303</u>						
<u>FP</u>	BAAQMD	<u>Y</u>		0.15 grain/dscf		<u>N</u>	
	Regulation						
	<u>6-310</u>						
<u>SO2</u>	BAAQMD	<u>N</u>		ground level	<u>Condition</u>	<u>P/E</u>	Vendor fuel
	Regulation			concentrations: 0.5	#18844, part 2		<u>certification</u>
	<u>9-1-301</u>			ppm for 3 consecutive			
	<u>BAAQMD</u>			minutes, 0.25 ppm			
				averaged over 60			
				consecutive minutes,			
				0.05 ppm averaged			
				over 24 hours			
<u>SO2</u>	BAAQMD	<u>Y</u>		0.5% sulfur limit for	Condition	<u>P/E</u>	Vendor fuel
	Regulation			<u>liquid fuel</u>	#18844, part 2		<u>certification</u>
	<u>9-1-304</u>						
<u>SO2</u>	Condition	<u>N</u>		sulfur content of fuel	<u>Condition</u>	<u>P/E</u>	Vendor fuel
	<u>#18844,</u>			<0.5% by weight	#18844, part 2		<u>certification</u>
	part 2						
Hours of	Condition	<u>Y</u>		reliability-related	<u>Condition</u>	<u>P/E</u>	Recordkeeping
operation	<u>#18844,</u>			activities not to	#18844, part 3		
	<u>part 1</u>			exceed 100 hours in			
				any consecutive 12-			
				month period			

Facility Name: Martinez CogenMCLP

Permit for Facility #: A1820

Expiration Date: December 18, 2003 [ENTER DATE]

ID: BNNRTI

VII. Applicable Emission Limits & Compliance Monitoring Requirements (continued)

<u>Table VII - E</u>

<u>Applicable Limits and Compliance Monitoring Requirements</u>

<u>COOLING TOWER</u>

Type of Limit	Citation of Limit	<u>FE</u> <u>Y/N</u>	Future Effective Date	<u>Limit</u>	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
<u>Opacity</u>	BAAQMD Regulation 6-301	Y		< Ringelmann 1 for more than 3 min/hr		<u>N</u>	
<u>FP</u>	BAAQMD Regulation 6-310	Y		0.15 grains per dscf		<u>N</u>	

Expiration Date: December 18, 2003 [ENTER DATE]

D. BNNRTH

VIII. TEST METHODS

The test methods associated with the emission limit of a District regulation are generally found in Section 600 et seq. of the regulation. The following table indicates only the test methods associated with the emission limits referenced in Section IV - Applicable Emission Limits & Compliance Monitoring Source-Specific Applicable Requirements.

Table VIII
Test Methods

Applicable		
Requirement	Description of Requirement	Acceptable Test Methods
BAAQMD 6-301	Ringelmann No. 1 Limitation	Manual of Procedures, Volume I, Evaluation of
		Visible Emissions
BAAQMD 6-310	Particulate Weight Limitation	Manual of Procedures, Volume IV, ST-15,
		Particulates Sampling or EPA Method 5.
		Determination of Particulate Matter Emissions from
		Stationary Sources
BAAQMD 6-311	General Operations	Manual of Procedures, Volume IV, ST-15,
		Particulates Sampling or EPA Method 5,
		<u>Determination of Particulate Matter Emissions from</u>
		Stationary Sources
BAAQMD 9-1-302	General Emission Limitation	Manual of Procedures, Volume IV, ST-19A, Sulfur
		Dioxide, Continuous Sampling, or
		ST-19B, Total Sulfur Oxides Integrated Sample
BAAQMD	Fuel Sulfur Content	Manual of Procedures, Volume III, Method 10,
<u>9-1-304</u>		Determination of Sulfur in Fuel Oil
BAAQMD 9-9-301.2	Emission Limits- Turbines Rated ≥	Manual of Procedures, Volume IV, ST-13A, Oxides
	10 MW w/o SCR	of Nitrogen, Continuous Sampling or
		ST-14, Oxygen, Continuous Sampling
PSD permit,	NO _X Emission Limits	EPA Method 7,-Determination of Nitrogen Oxide
part IX.C.		Emissions from Stationary Sources EPA Method 20-Determination of Nitrogen Oxides,
•		Sulfur Dioxide, and Diluent Emissions from
		Stationary Gas Turbines
NSPS 40 CFR	NO _X Emission Limits	EPA Method 7,-Determination of Nitrogen Oxide
60.332(a)(1)	·	Emissions from Stationary Sources
00.552(4)(1)		EPA Method 20-Determination of Nitrogen Oxides, Sulfur Dioxide, and Diluent Emissions from
		Stationary Gas Turbines

Facility Name: Martinez CogenMCLP
Permit for Facility #: A1820
Expiration Date: December 18, 2003[ENTER DATE]

VIII. Test Methods (continued)

Table VIII Test Methods

Applicable		
Requirement	Description of Requirement	Acceptable Test Methods
NSPS 40 CFR	Fuel Sulfur Content	ASTM D 1072-80, Standard Method for Total Sulfur
60.333(b)		in Fuel Gases
		ASTM D 3031-81, Standard Test Method for Total
		Sulfur in Natural Gas by Hydrogenation
BAAQMD Permit		
Condition #13422		
Part 2	NOx Emission Limits	Manual of Procedures, Volume IV, ST-13A, Oxides
		of Nitrogen, Continuous Sampling or
		ST-14, Oxygen, Continuous Sampling
Part 2	S0 ₂ Emission Limits	Manual of Procedures, Volume IV, ST-19A, Sulfur
		Dioxide, Continuous Sampling, or
		ST-19B, Total Sulfur Oxides Integrated Sample
Part 2	CO Emission Limit	Manual of Procedures, Volume IV, ST-6, Carbon
		Monoxide, Continuous Sampling and
		ST-14, Oxygen, Continuous Sampling
Part 2	NMHC Emission Limit	Manual of Procedures, Volume IV, ST-7, Non-
		Methane Organic Carbon Sampling
Part 2	PM10 Emission Limit	Manual of Procedures, Volume IV, ST-15,
		Particulates Sampling
Part 3	NOx Emission Limits	Manual of Procedures, Volume IV, ST-13A, Oxides
		of Nitrogen, Continuous Sampling or
		ST-14, Oxygen, Continuous Sampling
Part 4	H ₂ S Fuel Limit	Manual of Procedures, Volume IV, ST-28, Hydrogen
		Sulfide, Integrated Sampling

Expiration Date: December 18, 2003[ENTER DATE]

ID: BNNRTI

IX. Permit Shield (continued)

IX. PERMIT SHIELD

A. NON-APPLICABLE REQUIREMENTS

Pursuant to District Regulations 2-6-233 and 2-6-409.12, the federally enforceable regulations and/or standards cited in the following table[s] are not applicable to the source or group of sources identified at the top of the table[s]. Enforcement actions and litigation may not be initiated against the source or group of sources covered by this shield based on the regulatory and/or statutory provisions cited.

Table IX-A Facility Wide

	Title or Description
Citation	(Reason not applicable)
BAAQMD	Equipment Leaks
Regulation 8,	(Facility is not a petroleum refinery, chemical plant, bulk plant, or bulk terminal)
Rule 18	
SIP	Valves and Connectors at Petroleum Refinery Complexes, Chemical Plants, and Bulk-
Regulation 8,	Terminals
Rule 18	(Facility is not a petroleum refinery, chemical plant, bulk plant, or bulk terminal)
BAAQMD	Valves and Flanges at Chemical Plants
Regulation 8,	(Facility is not a chemical plant)
Rule 22	
BAAQMD-	Pump and Compressor Seals at Petroleum Refineries, Chemical Plants, Bulk Plants and
SIP	Bulk Terminals
Regulation 8,	(Facility is not a petroleum refinery, chemical plant, bulk plant, or bulk terminal)
Rule 25	
BAAQMD	Pressure Relief Valves at Petroleum Refineries and Chemical Plants
Regulation 8,	(Facility is not a petroleum refinery or chemical plant)
Rule 28	
SIP	Pressure Relief Valves at Petroleum Refineries and Chemical Plants
Regulation 8,	(Facility is not a petroleum refinery or chemical plant)
Rule 28	

Expiration Date: December 18, 2003 ENTER DATE

D. BNNRTH

VIII. Test Methods (continued)

B. SUBSUMED REQUIREMENTS

Pursuant to District Regulations 2-6-233 and 2-6-409.12, as of the date this permit is issued, the federally enforceable "subsumed" regulations and/or standards cited in the following table are not applicable to the source or group of sources identified at the top of the table. The District has determined that compliance with the "streamlined" requirements listed below and elsewhere in this permit will assure compliance with the substantive requirements of the "subsumed" regulations and/or standards. Enforcement actions and litigation may not be initiated against the source or group of sources covered by this shield based on the "subsumed" regulatory and/or statutory provisions cited.

Table IX-B S-10, S-11: Gas Turbines

Subsumed Requirement		Streamlined	
Citation	Title or Description	Requirements	Title or Description
NSPS			
Subpart A			
60.13	Monitoring Requirements	BAAQMD	Monitoring Requirements
		Cond #13422,	
		Part 5	
NSPS	Standards of Performance for		
Subpart GG	Stationary Gas Turbines		
60.334(b)(2)	Fuel Sulfur Limit Monitoring	BAAQMD	H2S Concentration Limit in Fuel
		Cond #13422,	
		Part 4	
60.334(b)(2)	Fuel Nitrogen Monitoring	BAAQMD	Monitoring and Recordkeeping
		Regulation	Requirements
		9-9-501	
60.334(c)(1)	Periods of excess NOx emissions	BAAQMD	Monitoring and Recordkeeping
		Regulation	Requirements
		9-9-501	
PSD Condition	NOx monitoring systems	BAAQMD	Monitoring and Recordkeeping
IX.E.1.a		Regulation	Requirements
		9-9-501	

Facility Name: Martinez CogenMCLP
Permit for Facility #: A1820
Expiration Date: December 18, 2003[ENTER DATE]

VIII. Test Methods (continued)

Table IX-B S-10, S-11: Gas Turbines

Subsumed			
Requirement		Streamlined	
Citation	Title or Description	Requirements	Title or Description
PSD Condition	Magnitude of Excess Emissions	BAAQMD	Monitoring and Recordkeeping
IX.E.3.a		Regulation	Requirements
		9-9-501	
PSD Condition	Periods of Excess Emissions	BAAQMD	Monitoring and Recordkeeping
IX.E.3.b		Regulation	Requirements
		9-9-501	
PSD Condition	CEM Downtime	BAAQMD	Monitoring and Recordkeeping
IX.E.3.c		Regulation	Requirements
		9-9-501	
PSD Condition	Reports	BAAQMD	Monitoring and Recordkeeping
IX.E.3.d		Regulation	Requirements
		9-9-501	
PSD Condition	Records	BAAQMD	Monitoring and Recordkeeping
IX.E.6		Regulation	Requirements
		9-9-501	
BAAQMD	Periodic Monitoring for NOx limit in	BAAQMD	Monitoring and Recordkeeping
Regulation	NSPS Subpart GG, 60.332(a)(1)	Regulation	Requirements
2-6-409.2		9-9-501	

Facility Name: Martinez Cogen Permit for Facility #: A1820

X. MAJOR FACILITY REVIEW PERMIT HISTORY

Title V Initial Issuance (Application #25820):

December 18, 1998

Title V Renewal (Application #7713)

Facility Name: Martinez CogenMCLP

Permit for Facility #: A1820

X.XI. GLOSSARY

ACT

Federal Clean Air Act

APCO

Air Pollution Control Officer

API

American Petroleum Institute

ARB

Air Resources Board

BAAQMD

Bay Area Air Quality Management District

BACT

Best Available Control Technology

BARCT

Best Available Retrofit Control Technology

<u>C5</u>

An Organic chemical compound with five carbon atoms

C6

An Organic chemical compound with six carbon atoms

CAA

The federal Clean Air Act

CAAQS

California Ambient Air Quality Standards

CAPCOA

California Air Pollution Control Officers Association

CEC

California Energy Commission

CEQA

California Environmental Quality Act

CEM

A "continuous emission monitor" is a monitoring device that provides a continuous direct measurement of some pollutant (e.g. NOx concentration) in an exhaust stream.

Expiration Date: December 18, 2003[ENTER DATE]

D. BNNRTH

XXI. Glossary (continued)

CFR

The Code of Federal Regulations. 40 CFR contains the implementing regulations for federal environmental statutes such as the Clean Air Act. Parts 50-99 of 40 CFR contain the requirements for air pollution programs.

\mathbf{CO}

Carbon Monoxide

CO₂

Carbon Dioxide

Cumulative Increase

The sum of permitted emissions from each new or modified source since a specified date. Used to determine whether threshold-based requirements are triggered.

District

The Bay Area Air Quality Management District

dscf

Dry Standard Cubic Feet

dscm

Dry Standard Cubic Meter

E 6, E 9, E 12

Very large or very small number values are commonly expressed in a form called scientific notation, which consists of a decimal part multiplied by 10 raised to some power. For example, $4.53 ext{ E 6 equals } (4.53) ext{ x } (10^6) = (4.53) ext{ x } (10 ext{ x } 10 ext{ x } 10 ext{ x } 10 ext{ x } 10 ext{ x } 10) = 4,530,000$. Scientific notation is used to express large or small numbers without writing out long strings of zeros.

EGT

Exhaust Gas Temperature

EPA

The federal Environmental Protection Agency.

Excluded

Not subject to any District Regulations.

Expiration Date: December 18, 2003[ENTER DATE]

D. BNNRTH

XXI. Glossary (continued)

Federally Enforceable, FE

All limitations and conditions which are enforceable by the Administrator of the EPA including those requirements developed pursuant to 40 CFR Part 51, subpart I (NSR), Part 52.21 (PSD), Part 60, (NSPS), Part 61, (NESHAPS), Part 63 (HAP), and Part 72 (Permits Regulation, Acid Rain), and also including limitations and conditions contained in operating permits issued under an EPA-approved program that has been incorporated into the SIP.

FP

Filterable Particulate as measured by BAAQMD Method ST-15, Particulate.

FR

Federal Register

GDF

Gasoline Dispensing Facility

GLC

Ground level concentration.

GLM

Ground Level Monitor

grains

1/7000 of a pound

HAP

Hazardous Air Pollutant. Any pollutant listed pursuant to Section 112(b) of the Act. Also refers to the program mandated by Title I, Section 112, of the Act and implemented by both 40 CFR Part 63, and District Regulation 2, Rule 5.

H2S

Hydrogen Sulfide

HHV

Higher Heating Value. The quantity of heat evolved as determined by a calorimeter where the combustion products are cooled to 60F and all water vapor is condensed to liquid.

LHV

Lower Heating Value. Similar to the higher heating value (see HHV) except that the water produced by the combustion is not condensed but retained as vapor at 60F.

Expiration Date: December 18, 2003[ENTER DATE]

D. BNNRTI

XXI. Glossary (continued)

Major Facility

A facility with potential emissions of regulated air pollutants greater than 100 tons per year, greater than or equal to 10 tons per year of any single hazardous air pollutant, and/or greater than or equal to 25 tons per year of any combination of hazardous air pollutants, or such lesser quantity as determined by the EPA administrator.

MFR

Major Facility Review. The District's term for the federal operating permit program mandated by Title V of the Act and implemented by District Regulation 2, Rule 6.

MOP

The District's Manual of Procedures.

MSDS

Material Safety Data Sheet

$\mathbf{M}\mathbf{W}$

Megawatts

NA

Not Applicable

NAAQS

National Ambient Air Quality Standards

NESHAPS

National Emission Standards for Hazardous Air Pollutants. Contained in 40 CFR Part 61.

NMHC

Non-methane Hydrocarbons

NMOC

Non-methane Organic Compounds (Same as NMHC)

NO_X

Oxides of nitrogen.

NSPS

Standards of Performance for New Stationary Sources. Federal standards for emissions from new stationary sources. Mandated by Title I, Section 111 of the Act, and implemented by both 40 CFR Part 60 and District Regulation 10.

Expiration Date: December 18, 2003[ENTER DATE]

D. BNNRTH

XXI. Glossary (continued)

NSR

New Source Review. A federal program for preconstruction review and permitting of new and modified sources of air pollutants for which the District is classified "non-attainment". Mandated by Title I of the Clean Air Act and implemented by 40 CFR Parts 51 and 52 as well as District Regulation 2, Rule 2. (Note: There are additional NSR requirements mandated by the California Clean Air Act.)

O2

The chemical name for naturally-occurring oxygen gas.

Offset Requirement

A New Source Review requirement to provide federally enforceable emission offsets at a specified ratio for the emissions from a new or modified source and any pre-existing cumulative increase minus any onsite contemporaneous emission reduction credits. Applies to emissions of POC, NO_X, PM10, and SO₂.

Phase II Acid Rain Facility

A facility that generates electricity for sale through fossil-fuel combustion and by virtue of certain other characteristics (defined in Regulation 2, Rule 6) is subject to Titles IV and V of the Clean Air Act.

POC

Precursor Organic Compounds

PM

Total Particulate Matter

PM10

Particulate matter with aerodynamic equivalent diameter of less than 10 microns

PSD

Prevention of Significant Deterioration. A federal program for permitting new and modified sources of air pollutants for which the District is classified "attainment" of the National Air Ambient Quality Standards. Mandated by Title I of the Act and implemented by both 40 CFR Part 52 and District Regulation 2, Rule 2.

SCR

A "selective catalytic reduction" unit is an abatement device that reduces NOx concentrations in the exhaust stream of a combustion device. SCRs utilize a catalyst, which operates at a specific temperature range, and injected ammonia to promote the conversion of NOx compounds to nitrogen gas.

Expiration Date: December 18, 2003 ENTER DATE

ID: RNNRTH

XXI. Glossary (continued)

SIP

State Implementation Plan. State and District programs and regulations approved by EPA and developed in order to attain the National Air Ambient Quality Standards. Mandated by Title I of the Act.

SO₂

Sulfur dioxide

SO2 Bubble

An SO2 bubble is an overall cap on the SO2 emissions from a defined group of sources, or from an entire facility. SO2 bubbles are sometimes used at refineries because combustion sources are typically fired entirely or in part by "refinery fuel gas" (RFG), a waste gas product from refining operations. Thus, total SO2 emissions may be conveniently quantified by monitoring the total amount of RFG that is consumed, and the concentration of H2S and other sulfur compounds in the RFG.

SO3

Sulfur trioxide

THC

Total Hydrocarbons (NMHC + Methane)

therm

100,000 British Thermal Unit

Title V

Title V of the federal Clean Air Act. Requires a federally enforceable operating permit program for major and certain other facilities.

TOC

Total Organic Compounds (NMOC + Methane, Same as THC)

TRMP

Toxic Risk Management Plan

TSP

Total Suspended Particulate

TVP

True Vapor Pressure

Expiration Date: December 18, 2003[ENTER DATE]

ID: RNNRTH

XXI. Glossary -(continued)

VOC

Volatile Organic Compounds

Units of Measure:

bhp	=	brake-horsepower
Btu	=	British Thermal Unit

g = grams gal = gallon hp = horsepower

hr = hour
lb = pound
in = inches
max = maximum
m² = square meter
min = minute

min = minute MM = million

ppmv = parts per million, by volume
ppmw = parts per million, by weight
psia = pounds per square inch, absolute
psig = pounds per square inch, gauge
scfm = standard cubic feet per minute

yr = year

Symbols:

<	=	less than
>	=	greater than
<	=	less than or equal to
>	=	greater than or equal to

Facility Name: Martinez Cogen Limited Partnership

Permit for Facility #: A1820

Expiration Date: December 18, 2003 ENTER DATE

D. BNNRTH

XI.XII.APPENDIX A - APPLICABLE STATE IMPLEMENTATION PLAN

The Bay Area Air Quality Management District's portion of the State Implementation Plan can be found at EPA Region 9's website. The address is:

http://yosemite1.epa.gov/r9/r9sips.nsf/California?ReadForm&Start=1&Count=30&Expand=3.1

See Attachments